# Operations Plan Jicarilla 123 C #31

I. Location: 1190'N, 1100'W, Section 7, T-25-N, R-4-W, Rio Arriba Co., N,

Field: Basin Dakota Elevation: 6989'GL

## II. Geology:

Α.	Formation Tops:	Surface	San Jose	Menefee	5130'
	-	Ojo Alamo	2860'	Pt.Lookout	5585 <b>'</b>
		Kirtland	2975 <b>'</b>	Gallup	6730 <b>'</b>
		Fruitland	32 <b>7</b> 5 <b>'</b>	Greenhorn	7595 <b>'</b>
		Pic.Cliffs	3380'	Graneros	7549 <b>'</b>
		Lewis	3500 <b>'</b>	Dakota	7710'
		Mesa Verde	5080 <b>'</b>	Total Depth	7900 <b>'</b>

B. Logging Program: Induction Electric and Gamma Ray Density at TD.

C. Coring: none

## III. Drilling:

A. Mud Program: mud from surface to Total Depth.

### IV. Materials:

A. Casing Progr	am: Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	200'	8 5/8"	24.0# K-55
	7 7/8"	6500 <b>'</b>	4 1/2"	10.5# K-55
	7 7/8"	7900 <b>'</b>	4 1/2"	11.6# K-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe

4 1/2" production casing - guide shoe and self-fill insert valve. Two multiple stage cementers equipped for three stage cementing. Set tool for second stage at 6185' and tool for third stage at 3600'. Run 20 centralizers spaced as follows: one on each of the bottom 8 joints, one below each stage tool, and five above each stage tool spaced every other joint.

- C. Tubing: 7900'' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and expendable check valve with drill type guide.
- D. Wellhead Equipment:  $8"2000 \times 85/8"$  casing head, with  $8" \times 41/2"$  casing hanger,  $8"2000 \times 6"2000$  xmas tree.

#### V. Cementing:

Surface casing (12 1/4" x 8 5/8") - use 140 sks. Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (165 cu.ft. of slurry, 100% excess to circulate). WOC 12 hours. Test to 600#/30 min.